2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project	. .				
-	t:			Zin Code	
				-	
Owned By:		ity/County		ivate	☐ State
•		ity	<u>—</u>	ounty	=
Code Emorecin					State
CONTACT: _	CID14		LICENSE#	TELEPHONE #	——————————————————————————————————————
DESIGNER Architectural	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Civil				()	
Electrical				()	
Fire Alarm				()	
Plumbing Mechanical				()	
	ipe			()	
Structural				()	
	>5' High			()	
Other "Others" should	include firms and individ	luals such as truss	precast pre-engin	eered interior des	igners etc.)
(Others Should	merade minis and marvid	tadio baon ab trass,	procust, pro ongm	ecica, interior des.	igners, etc.)
CONST RENO	☐ 1 st ☐ Sh	on: Level I Historic ORIGIN	mpletion n – Shell/Core otive	vel II	Chapter 14 Level III Change of Use
BASIC BUILD Construction T (check all that a Sprinklers: Standpipes: Fire District: Special Inspection	Type: □ I-A upply) □ I-B □ No □ Partial □ □ No □ Yes Cla □ No □ Yes (Prima	ss I III ary)		et Dry	□ V-A □ V-B PA 13D □ Yes

2018 NC Administrative Code and Policies

Appendix B for Building

Gross Building Area: NEW (SQ FT) RENO/ALTER **FLOOR** EXISTING (SQ SUB-TOTAL (SQ.FT) FT) 6th Floor 5th Floor 4th Floor 3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL ALLOWABLE AREA **Primary Occupancy Classification: SELECT ONE** Assembly \square A-1 \square A-2 \square A-3 \square A-4 \square A-5 Business Educational F-1 Moderate F-2 Low Factory Hazardous H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM Institutional \square I-1 Condition \square 1 \square 2 \Box 1-2 Condition \Box 1 2 $\boxed{1-3}$ Condition $\boxed{1}$ $\Box 2$ $\square 3 \square 4$ 1-4 Mercantile Residential R-1 R-2 R-3 R-4 Storage S-1 Moderate S-2 Low High-piled Parking Garage Open Enclosed Repair Garage Utility and Miscellaneous Accessory Occupancy Classification(s): _____ Incidental Uses (Table 509): ___ Special Uses (Chapter 4 – List Code Sections) Special Provisions: (Chapter 5 – List Code Sections): _____ Separation: ____ Hr. Exception: ____ **Mixed Occupancy:** ☐ No Yes Non-Separated Use (508.3) The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building. Separated Use (508.4) -See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1. Actual Area of Occupancy B Actual Area of Occupancy A < 1 Allowable Area of Occupancy A Allowable Area of Occupancy B ≤ 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ⁴ AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,5}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,3}

¹ Frontage area increases from Section 506.3 are computed thus:

- a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____(F)
- b. Total Building Perimeter = _____(P)
- c. Ratio $(F/P) = ____ (F/P)$
- d. $W = Minimum width of public way = ____ (W)$
- e. Percent of frontage increase $I_f = 100 [F/P 0.25] x W/30 =$ (%)
- ² Unlimited area applicable under conditions of Section 507.
- ³ Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
- ⁴ The maximum area of open parking garages must comply with Table 406.5.4
- ⁵ Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE (TABLE 503)	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)			
Building Height in Stories (Table 504.4)			

¹ Provide code reference if the "Show on Plans" quantity is not based on Table 504.3 or 504.4.

² The maximum height of air traffic control towers must comply with Table 412.3.1

³ The maximum height of open parking garages must comply with Table 406.5.4

FIRE PROTECTION REQUIREMENTS

SEPARATION DISTANCE PROVIDED NAD FOR RATED	BUILDING ELEMENT	FIRE	RATING	DETAIL#	DESIGN#	DESIGN # FOR	DESIGN#
Structural Frame, including columns, girders, trusses Bearing Walls Exterior North Fast West South Interior Northe East West South Interior North East West South Interior North East West South Interior North East Fixerior walls North East Fixerior walls North East Foor Cowstruction Including supporting beams and joists Floor Construction, including supporting beams and joists Roof Construction, including supporting beams and joists Roof Construction, including supporting beams and joists Roof Column Supporting Roof Shaft Enclosures - Exit Shaft Enclosures - Other Corridor Separation Party-Fire Wall Separation Smoke Barrier Separation Smoke Partition							FOR
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Column Supporting Floors Roof Construction, including supporting beams and joists Roof Ceiling Assembly Column Supporting Roof Shaft Enclosures - Exit Shaft Enclosures - Other Corridor Separation Occupancy/Fire Barrier Separation Party/Fire Wall Separation Smoke Barrier Separation Smoke Partition Tenant/Dwelling Unit/	and joists						
Roof Construction, including supporting beams and joists Roof Ceiling Assembly Column Supporting Roof Shaft Enclosures - Exit Shaft Enclosures - Other Corridor Separation Occupancy/Fire Barrier Separation Party/Fire Wall Separation Smoke Barrier Separation Smoke Partition Tenant/Dwelling Unit/	Floor Ceiling Assembly						
supporting beams and joists Roof Ceiling Assembly Column Supporting Roof Shaft Enclosures - Exit Shaft Enclosures - Other Corridor Separation Occupancy/Fire Barrier Separation Party/Fire Wall Separation Smoke Barrier Separation Smoke Partition Tenant/Dwelling Unit/	Column Supporting Floors						
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Shaft Enclosures - Exit Shaft Enclosures - Other Corridor Separation Occupancy/Fire Barrier Separation Party/Fire Wall Separation Smoke Barrier Separation Smoke Partition Tenant/Dwelling Unit/	Roof Ceiling Assembly						
Shaft Enclosures - Other Corridor Separation Occupancy/Fire Barrier Separation Party/Fire Wall Separation Smoke Barrier Separation Smoke Partition Tenant/Dwelling Unit/	Column Supporting Roof						
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Party/Fire Wall Separation Smoke Barrier Separation Smoke Partition Tenant/Dwelling Unit/							
Smoke Barrier Separation Smoke Partition Tenant/Dwelling Unit/							
Smoke Partition Tenant/Dwelling Unit/							
Tenant/Dwelling Unit/							
Siceping Onit Separation	Sleeping Unit Separation						
Incidental Use Separation	Incidental Use Separation						

^{*} Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET FROM PERPERTY LINES	DEGREES OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)

	LIFE SAFETY S	SYSTEM RE	QUIREMEN	NTS	
Emergency Lighting: Exit Signs: Fire Alarm: Smoke Detection Systems: Carbon Monoxide Detection:	No Yes No Yes No Yes No Yes No Yes No Yes	Partial			
	LIFE SAFET	Y PLAN RE	QUIREMEN	TS	
Life Safety Plan Sheet #:					
Fire and/or smoke rated wal	locations (Chapter	r 7)			
Assumed and real property l		_			
Exterior wall opening area v	•				
Occupancy types for each ar		ccupant load o	calculation (T	able 1004.1.2)	
Occupant loads for each areaExit access travel distances					
Common path of travel dista		2006 3 2(1))			
Dead end lengths (1020.4)	1000.2.1 & 2	2000.3.2(1))			
Clear exit widths for each ex	it door				
Maximum calculated occupa	nt load capacity ea	ch exit door c	an accommod	date based on	egress width (1005.3)
Actual occupant load for each	h exit door				
A separate schematic plan in					
occupancy separation and su			arrier/fire par	tition/smoke l	barrier.
Location of doors with panio			. f. 1.1. (101)	0.1.0.7)	
Location of doors with clear	_		-	J.1.9.7)	
Location of doors with electLocation of doors equipped			9.9)		
Location of emergency esca	_				
☐ The square footage of each f		,			
☐ The square footage of each s		t for Occupan	cy Classificat	ion I-2 (407.5	
Note any code exceptions or	=	_	-		
Section/Table/Note			Title	,	
		BLE DWELI SECTION 11			
TOTAL ACCESSIBLE ACCESSI	LE TYPE A	TYPE A	Түре В	Түре В	TOTAL
Units Units Units Required Provide	UNITS REQUIRED	UNITS PROVIDED	Units Required	Units Provided	ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING

(SECTION 1106)

LOT OR PARKING	TOTAL # OF PA	RKING SPACES	# OF AC	TOTAL#		
AREA	REQUIRED	PROVIDED	REGULAR WITH	VAN SPACES WITH		ACCESSIBLE
			5' ACCESS	132" ACCESS	8' ACCESS	PROVIDED
			AISLE	AISLE	AISLE	
TOTAL						

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

Ţ	JSE	V	WATERCLOS	ETS	URINALS		LAVATORII	ES	SHOWERS	DRINKING	FOUNTAINS
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX	/ TUBS	REGULAR	ACCESSIBLE
SPACE	EXIST'G										
	NEW										
	REQ'D										

SPECIAL APPROVALS Special approval: (Local Jurisdiction, Department of Insurance, SCO, DPI, DHHS, ICC, etc., describe below)

ENERGY SUMMARY

ENERGY REQUIREMENTS:

The following data shall be considered minimum and any special attribute required to meet the **North Carolina Energy Conservation Code** shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: No Yes (The remainder of this section is not applicable)
Exempt Building: No Yes (Provide Code or Statutory reference):
Climate Zone: 3A 4A 5A
Method of Compliance: Energy Code Performance Prescriptive ASHRAE 90.1 Performance Prescriptive (If "Other" specify source here)
THERMAL ENVELOPE (Prescriptive method only)
Roof/ceiling Assembly (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Skylights in each assembly:
U-Value of skylight:
Total square footage of skylights in each assembly:
Exterior Walls (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Openings (windows or doors with glazing)
U-Value of assembly:
Solar heat gain coefficient:
Projection factor:
Door R-Values:
Walls below grade (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Floors over unconditioned space (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Floors slab on grade
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Horizontal/Vertical requirement:
Slab Heated:

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

STRUCTURAL DESIGN (PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS: Importance Factors: Snow (I_S) Seismic (I_E) _____ psf _____ psf Live Loads: Roof Mezzanine Floor _____ psf **Ground Snow Load:** _____ psf Wind Load: Ultimate Wind Speed _____ mph (ASCE-7) **Exposure Category SEISMIC DESIGN CATEGORY:** $\prod A$ \square B $\prod D$ $\prod C$ Provide the following Seismic Design Parameters: ☐ III ☐ IV Risk Category (Table 1604.5) \square I Spectral Response Acceleration S_8 %g S_1 $\prod A$ $\Box E$ **Site Classification** (ASCE 7) \square B \Box C \Box D Data Source: Field Test Presumptive Historical Data **Basic structural system** Bearing Wall Dual w/Special Moment Frame ☐ Building Frame Dual w/Intermediate R/C or Special Steel ☐ Moment Frame ☐ Inverted Pendulum **Analysis Procedure:** ☐ Simplified ☐ Equivalent Lateral Force ☐ Dynamic Yes Architectural, Mechanical, Components anchored? \square No LATERAL DESIGN CONTROL: Earthquake Wind **SOIL BEARING CAPACITIES:** Field Test (provide copy of test report) _____ psf Presumptive Bearing capacity ______ psf

Pile size, type, and capacity

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN (PROVIDE ON THE MECHANICL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT Prescriptive Performance **Method of Compliance:** Energy Code: ASHRAE 90.1: Prescriptive Performance Lighting schedule (each fixture type) lamp type required in fixture number of lamps in fixture ballast type used in the fixture number of ballasts in fixture total wattage per fixture total interior wattage specified vs. allowed (whole building or space by space) total exterior wattage specified vs. allowed **Additional Efficiency Package Options** (When using the 2018 NCECC; not required for ASHRAE 90.1) C406.2 More Efficient Mechanical Equipment C406.3 Reduced Lighting Power Density C406.4 Enhanced Digital Lighting Controls C406.5 On-Site Renewable Energy C406.6 Dedicated Outdoor Air System C406.7 Reduced Energy Use in Service Water Heating